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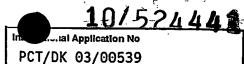
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A. CLASSIFICATION OF SUBJECT MATTER
1PC 7 C07D471/04 C07D487/04

C07D307/20

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

C12P41/00

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
Y	WO 98 14447 A (WAETJEN FRANK ;DREJER JOERGEN (DK); NEUROSEARCH AS (DK)) 9 April 1998 (1998-04-09) the whole document		
Υ	WO 01 18231 A (LONZA AG ;KALBERMATTEN GEORGES (CH); PETERSEN MICHAEL (CH)) 15 March 2001 (2001-03-15) the whole document	1-6	
X		7-9	
Υ	EP 0 439 779 A (CHISSO CORP) 7 August 1991 (1991-08-07) the whole document	1-6	
Х	===	7-9	
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Date of the actual completion of the international search	Date of mailing of the international search report
1 December 2003	9. 02. 2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer EVA JOHANSSON /EÖ
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in onal Application No PCT/DK 03/00539

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 467 132 A (CHISSO CORP) 22 January 1992 (1992-01-22) the whole document	7-9
	the whore document	
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	•	
		1
	•	
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INTERNATIONAL SEARCH REPORT

mation on patent family members

Internal Application No PCT/DK 03/00539

Patent do . cited in sea	cument rch report	Publication date		Patent family member(s)		Publication date
WO 981	1447	09-04-1998	AU	716435	B2	24-02-2000
			ΑU	4376897		24-04-1998
			BG		B1	30-04-2003
	•		BG		A	30-04-1999
			BR	9706765		
			CA	2238410		14-09-1999
						09-04-1998
	•		CN	1207100	A,B	03-02-1999
			CZ	9801606		14-10-1998
			MO	9814447		09-04-1998
•			EE	9800144		15-10-1998
			EP	0869958	A1	14-10-1998
			HK	1017682		23-05-2003
			HU	9901630		30-08-1999
			JР	2000501432	T	08-02-2000
			JР	3319762		03-09-2002
			NO	982466		31-07-1998
•			NZ	330456		25-11-1998
•			PL	327073		23-11-1998
			RŪ	2190612	υ. ΩΤ	10-10-2002
			SK	67698		
			TR			04-11-1998
			US		T1	21-12-1998
				6124285		26-09-2000
			US	RE38200		22-07-2003
			ZA	9708806	A	23-07-1998
WO 0118	3231 A	15-03-2001	AU	7418100		10-04-2001
			WO	0118231	A2	15-03-2001
EP 0439	779 <i>F</i>	07-08-1991	JP	2542941	B2	09-10-1996
•			JP	3228694		09-10-1991
•			DE	69021711		21-09-1995
			DE	69021711		22-02-1996
			ĒΡ	0439779		07-08-1991
	•		ŪS	5084392	Δ	28-01-1992
						70-01-1992
EP 0467	'132 <i>F</i>	22-01-1992	JP	2939646		25-08-1999
			JР	4077456		11-03-1992
			DE	69124298		06-03-1997
			DE	69124298		05-06-1997
			EP	0467132		22-01-1992
		•	SG	50443		20-07-1998
			US	5324852	Δ	28-06-1994